

Report No.: 8003-081  
Work Assignment No.: 019-2JZZ  
Contract No.: 68-W9-0051  
September 16, 1992  
Updated: April 19, 1993

215801



Sandra Foose  
U.S. Environmental Protection Agency  
Region II  
Edison, New Jersey 08837

OK  
AGB  
9/30/93

RE: Gen Tape, Inc. Site Inspection Prioritization (SIP)

Dear Ms. Foose:

This correspondence provides a description of the Gen Tape, Inc. site (EPA I.D. No. NJD981557903) located in Bloomfield, Essex County, New Jersey.

The Gen Tape, Inc. site is an active eight-acre property bordered by Industries to the north and west, and residences to the south and east. At the present time, the following three commercial entities are operating at this location; Gen Tape, Inc., General Plastics Corporation, and Rose Art Industries. Gen Tape, Inc. and General Plastics Corporation are operating under the ownership of Plastics Management Corp., the property owner, while Rose Art Industries operates under different ownership and leases a portion of the property. From 1959 to the present, Gen Tape, Inc. has manufactured tapes, dials, and panels for visual display instrumentation used in commercial and military aircraft and aerospace vehicles. Manufacturing processes include the nylon coating of fiberglass tapes, screen printing, photoetching, and painting of metal and plastic dials and panels. The resulting hazardous by-products of the manufacturing operations include acetone, xylene, methanol, nitric acid, and petroleum ether. Prior to use, these process materials are stored in 55-gallon and 5-gallon containers in an on-site chemical storage shed. Gen Tape, Inc. was sold to General Plastics Corporation in 1984, at which time an Environmental Cleanup Responsibility Act (ECRA) inspection was conducted. During the investigation by the New Jersey Department of Environmental Protection and Energy (NJDEPE), several violations were noted including the improper storage of paints and chemicals, and the installation of paint spray booths without air pollution permits. Subsequently, Gen Tape, Inc. implemented formalized hazardous waste storage and disposal practices, and received seven New Jersey Bureau of Air Pollution Control permits for six spray booths, and one PQ (no definition provided) oven. Subsequently, NJDEPE approved a Negative Declaration calling for no further remedial action at the Gen Tape, Inc. facility on November 30, 1984.

A second entity, the General Plastics Corporation, has been operating from an unknown date to the present at this location. Manufacturing processes include teflon and liquid nylon coating of metal parts, resulting in hazardous by-products which include volatile organic compounds. A 1986 compliance evaluation inspection conducted by the NJDEPE, Division of Water Resources (DWR) noted several violations including poor housekeeping practices, and the improper labelling and storage of drums. The violations were corrected, and subsequent inspections found conditions at the facility to be acceptable. In 1981, General Plastics received a National Pollutant Discharge Elimination System (NPDES) permit for the discharge of non-contact cooling water to the Passaic River; however, in 1987, this discharge was rerouted to the local sanitary sewer. Also in 1987, approximately 1500 gallons of fuel oil leaked from an underground fuel oil storage tank into a storm sewer. This tank was subsequently excavated and the excavated area backfilled. A review of available NJDEPE file information indicates that there has been no ECRA activity on-site associated with General Plastics Corporation.

At the present time, a small portion of the property is leased by Plastics Management Corp. to Rose Art Industries, a manufacturer of children's crayons. Available documentation does not indicate whether hazardous material is used, stored, or generated during their operations.

A NJDEPE site inspection report was completed for the Gen Tape, Inc. site in 1991. During the site inspection twelve on-site soil samples were collected from the southern and western portions of the property at unknown depths. All samples were analyzed and validated according to NJDEPE requirements, which are equivalent to U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) parameters. Sample analysis indicated the presence of organic and inorganic constituents. The soil sample collected furthest from any areas of known site activity was used as a biased background soil sample (S9). Barium (522,000 ppb in S6), cadmium (6,100 ppb in S6), mercury (3,100 ppb in S4), nickel 70,500 ppb in S3), silver (6,100 ppb in S3), trans-1,2-dichloroethylene (71 ppb in S2), tetrachloroethene (100 ppb in S4), 1,1,1-trichloroethane 42 ppb in S4), and trichloroethylene (140 ppb in S2) were all detected in attribution soil samples in excess of those found in the biased background soil sample. These concentrations are below health-based benchmarks established for the individual compounds. One waste source (WS) was identified for this site. Based on soil sampling results, an area of 174,240 square feet of contaminated soil was identified as WS No. 1 for the site.

The site property is situated above a broad area of unconsolidated deposits consisting of clay, sand, and gravel that comprise an unconsolidated aquifer. Underlying the unconsolidated aquifer is the Brunswick Shale aquifer, the uppermost aquifer of the Newark Group. This formation is reported to consist of brown, reddish-brown, and gray shale, sandy shale, sandstone, and conglomerate. The thickness of this formation in the vicinity of the site is in excess of 6,000 feet. The depth to surficial groundwater contact in the area of the site ranges between eight to twelve feet, where groundwater flows to the south.

Within four miles of the site, residents rely upon groundwater as a potable water supply. Three public supply wells from various water departments have been identified within a 4-mile radius of the Gen Tape, Inc. site. All the wells, which are located upgradient of the site, draw from the abovementioned Brunswick Formation. The nearest well is owned by the City of Orange Water Department, and is located approximately 1.6 miles west of the site. The total service population within four miles of the site is 15,387 people (0-0.25 mile, 0; 0.25-0.50 mile, 0; 0.50-1 mile, 0; 1-2 mile, 6,400; 2-3 mile, 5,688; 3-4 mile, 3,299). The proximity of the site to a wellhead protection area cannot be determined, pending promulgation by the NJDEPE of a delineation of protected areas.

Site runoff drains, through overland flow, to the Second River which is located approximately 0.76 miles north of the site. The Second River flows east 2.43 miles to a confluence with the Passaic River which flows south for 6.88 miles before emptying into Newark Bay. The Passaic River and Newark Bay are considered fisheries, and several edible types of fish species such as striped bass, American eel, and white perch are present in the water bodies along the surface water pathway; however, an advisory from the Division of Fish, Game, and Wildlife of NJDEPE is in effect within the entire Newark Bay Complex limiting the sale or consumption of all fish, shellfish, or crustaceans. National Wetland Inventory (NWI) Maps and U.S.G.S. Topographic Quadrangles for the surface water pathway indicate the presence of two miles of wetland frontage along the Passaic River. An additional four miles of wetland frontage is found along Newark Bay. The Passaic River is a NJDEPE classified Saline Waterbody (SE3). Designated uses of such a waterbody include secondary contact recreation, the maintenance and migration of fish populations, the migration of diadromous fish, and the maintenance of wildlife. There are no surface water intakes within the 15-mile target distance limit.

Sixteen residences are located adjacent to the southern perimeter of the site, and a school is located approximately fifty feet south of the site, on the opposite side of LaFrance Ave. Analytical results of on-site soil samples indicate the presence of organic and inorganic contaminants; however, available information does not indicate that soil contaminant migration has occurred to either the residences or the school. There are no day care facilities within 200 feet of the site. The site is active with less than 100 on-site workers. There are no known terrestrial sensitive environments located on areas of suspected soil contamination.

Currently, Gen Tape, Inc. holds seven New Jersey Bureau of Air Pollution Control Permits, while General

Plastics has thirteen such permits. No available documentation indicates a release to air from the site. The information available pertaining to the contaminant characteristics does not support a significant air component score. There are approximately 561,703 people within 4 miles of the site, and no known sensitive environments within one-half mile of the site.

In summary, a release of contaminants to groundwater is not documented as there are no on-site monitoring wells, and no groundwater samples were collected during the 1991 Site Inspection. There are approximately 15,387 people (0 - 1/4 mile, 0; 1/4 - 1/2 mile, 0; 1/2 - 1 mile, 0; 1 - 2 miles, 6,400; 2 - 3 miles, 5,688; 3 - 4 miles, 3,299), who obtain drinking water from municipal water wells within four miles of the site. The nearest well is a public supply well located 1.6 miles west (upgradient) of the site. There are no downgradient drinking water wells within four miles of the site. A release of contaminants from the site to surface water is also not documented as no surface water/sediment samples were collected during the 1991 Site Inspection. The nearest downslope water body is the Second River which is located approximately 0.76 miles north of the site. The Second River flows east into the Passaic River, which empties into Newark Bay. There are no potable surface water intakes along the 15-mile surface water pathway. The Passaic River and Newark Bay are utilized as fisheries; however, there is an advisory from the New Jersey Department of Environmental Protection and Energy (NJDEPE), Division of Fish, Game, and Wildlife in effect along the entire length of the Tidal Passaic River Complex which limits the sale or consumption of all fish, shellfish, and crustaceans. Approximately two miles of wetland frontage are located along the Passaic River, with an additional four miles of wetland frontage located along Newark Bay. The Passaic River is a NJDEPE classified Saline Waterbody (SE3). Designated uses of such a waterbody include secondary contact recreation, the maintenance and migration of fish populations, the migration of diadromous fish, and the maintenance of wildlife. There is no known documentation indicating that the fisheries or sensitive environments have been actually contaminated. There are 16 residences and one school located within 200 feet of the site; however, there is no documentation to indicate that contaminants have migrated off-site to the nearby residences and school. On-site surface soil contaminants are present at concentrations below established health-based benchmarks. The site is active, with less than 100 on-site workers. There are no day care facilities within 200 feet of the site. There is no evidence indicating a release of contaminants from the site to the air. Based upon the information outlined above, no further sampling is recommended. The overall site score is 9.02 and a recommendation of **Site Evaluation Accomplished (SEA)** is given for the Gen Tape, Inc. Site. The following is the definition of SEA: To the best of the EPA's knowledge, Superfund has completed its assessment at this site, and has determined that no further steps to list this site on the NPL will be taken unless information indicating that this decision was not appropriate or other considerations make a recommendation for listing appropriate at a later time. A "SEA" decision does not necessarily mean that there is no hazard associated with a given site; it means only that based upon available information, the location is not judged to be a potential NPL site.

If you have any questions concerning the above, do not hesitate to call me at (609)-860-0100.


Sincerely,

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LISA SZEGEDI  
SITE MANAGER

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JOHN D. RIECKHOFF  
PRE-REMEDIAL PROGRAM MANAGER

  
DENNIS STAINKEN, Ph.D.  
for WORK ASSIGNMENT MANAGER

<b>To: File</b>	<b>Date: August 10, 1992</b>		
<b>From: Lisa Szegedi</b>	<b>Project #: 8003-081</b>		
<b>Subject: Groundwater Populations</b>	<b>Site Name: Gen Tape, Inc.</b>		

The following towns are located within 4 miles of the site: Newark, Bloomfield, Belleville, Harrison, North Arlington, Nutley, Verona, Kearny, West Orange, South Orange, East Orange, Montclair, Glen Ridge, and Orange. They are listed below along with their sources of potable water.

- Newark, Bloomfield, and Belleville**-They obtain their drinking water from reservoirs located in West Milford. Newark obtains the water and supplies it to Bloomfield and Belleville.
- Harrison, North Arlington, Nutley, and Verona**-They obtain their drinking water from the Passaic Valley Water Commission. Passaic Valley Water Commission obtains their water from reservoirs which are not located along the surface water pathway.
- Kearny**-They own a portion of the Wanaque Reservoir. Therefore, they obtain all their drinking water from the reservoir.
- West Orange**-They obtain their drinking water from the American Water Co. American Water Co. obtains the water from a reservoir located in Short Hills, and from the Passaic Valley Water Commission.
- South Orange and East Orange**-They obtain their drinking water from wells; however, none of the wells are located within 4 miles of the site.
- Montclair and Glen Ridge**-They obtain their drinking water from the Wanaque Reservoir and from wells. The water from both sources is blended before entering the distribution system. The reservoir provides 75% of the total water, and the well water provides 25% of the total water. The wells with their distance from the site, and pumpage, are listed below:
  - Lorraine well-located outside of 4 miles of the site. Pumpage = 345,600 gpd.
  - Rand well-located in the 3-4 mile ring. Pumpage = 489,000 gpd.
  - Glenfield well-located in the 2-3 mile ring. Pumpage = 849,000 gpd.

The total service population is 38,000 people in Montclair, and 7,500 people in Glen Ridge for a total of 45,500 people.

Apportionment calculations are shown below:  
 $45,500 \times .25 = 11,375$  people served by the wells.  
 The total pumpage of the 3 wells is 1,683,600 gpd, therefore, the percent contributed by each well is the following:  
 $\text{Rand well} - 489,000 / 1,683,600 = .29 = 29\%$   $11,375 \text{ people} \times .29 = 3,299 \text{ people}$   
 $\text{Glenfield well} - 849,000 / 1,683,600 = .50 = 50\%$   $11,375 \text{ people} \times .50 = 5,688 \text{ people}$   
 Therefore, 2-3 mile ring = 5,688 people served and 3-4 mile ring = 3,299 people served.
- Orange**-The City of Orange obtains their drinking water from reservoir water and wells. Only 1 of the wells is located within 4 miles of the site. The Gist Place well is located in the 1-2 mile ring. The total service population is 32,000 people, and the Gist Place well provides approximately 20% of the total water sent out (this includes water from the other wells as well as the reservoir water). Therefore, the Gist Place well serves approximately 6,400 people.

**Summary**

0-1/4 mile ring	0 people	1-2 mile ring	6,400 people
1/4-1/2 mile ring	0 people	2-3 mile ring	5,688 people
1/2-1 mile ring	0 people	3-4 mile ring	3,299 people

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-092 Scientific Glass

Date: 2/24/92

Time: 10:30 ☒ AM ☐ PM

☐ Incoming Call

From: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Affiliation: \_\_\_\_\_

☒ Outgoing Call

To: Dolores Lippert (201)-680-4051

2/24/92

Telephone No. \_\_\_\_\_

Affiliation: Bloomfield Water Dept

Malcolm Pirnie Staff: Lisa Szege  
(Receiving or Calling) Name

(605)-860-0100  
Telephone No.

Summary of ☒ Conversation ☐ Agreement:

Bloomfield buys its water from Newark, and Newark  
gets its water from the Pequannock Reservoir  
All residents of Bloomfield receive their drinking  
water from the above supply  
There is one municipally owned well located in  
Memorial Park however it was closed ~~see~~ 2/24/92  
several years ago and hasn't been used since

## RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8008-092 Scientific GlassDate: 2/24/92Time: 1:27 ☐ AM ☒ PM☐ Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Telephone No. \_\_\_\_\_

☒ Outgoing CallTo: Raymond Struglo (201)-450-3419Affiliation: Belleville Water Dept

Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegedi

(Receiving or Calling) Name

(609)-860-0100

Telephone No. \_\_\_\_\_

Summary of ☒ Conversation ☐ Agreement:

Belleville receives their water from Newark.  
They receive their water from the Pequannock  
Reservoir. There are no municipal wells.

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-052 Scientific Glass

Date: 2/24/92

Time: 1:52 ☐ AM ☒ PM

☐ Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Telephone No. \_\_\_\_\_

☒ Outgoing Call

To: Tom Cifelli, apt (201)-268-2431

Affiliation: Harrison water dept Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☐ Conversation ☐ Agreement:

☒ Harrison receives from Passaic Valley Water  
Commission - Upper Passaic River and  
Whomque Reservoir  
No municipally owned wells

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 5002-092 Scientific Glass

Date: 2/24/92

Time: 1:34 ☐ AM ☒ PM

☐ Incoming Call

From: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Affiliation: \_\_\_\_\_

☒ Outgoing Call

To: Bob Nue (201)-955-5665

Telephone No. \_\_\_\_\_

Affiliation: North Arlington water dept

Malcolm Pirnie Staff: Lisa Szegodi  
(Receiving or Calling) Name

(609)-860-0100  
Telephone No.

Summary of ☐ Conversation ☐ Agreement: from

North Arlington buys water Passaic Valley  
Water Co - Reservoir Water - no municipality  
owned wells  
phone # for Passaic Valley Water Co = 340-4300



ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 6002-084 Pmc Richard's

Date: 2/24/92

Time: 2:05 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Telephone No. \_\_\_\_\_

☒ Outgoing Call

To: Katy Isgró <sup>Alan</sup> Piccinino (201)-284-4951

Affiliation: Nutley water dept Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☒ Conversation [ ] Agreement:

Nutley obtains their drinking water from the  
Passaic Valley Water Commission which gets  
their water from Wanaque Reservoir  
There is one drinking water supply well  
The reservoir water is sent out to all the  
residents - The well is not in the distribution system  
The well is located on Vincent Place & Booth St  
The residents are able to bring their own  
containers to the well and obtain water

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-032 Scientific Glass

Date: 2/24/92

Time: 2:46 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Telephone No. \_\_\_\_\_

☒ Outgoing Call

To: Adele Gibilisco (201)-857-4805

Affiliation: Usona water dept

Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegedi  
(Receiving or Calling) Name

(609)-860-0100  
Telephone No.

Summary of ☒ Conversation [ ] Agreement:

Usona buys all their water from the Passaic  
Valley water commission, which gives  
them water from the Llanaque Reservoir  
there are no municipally owned wells

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-092 Scientific Glass

Date: 2/28/92

Time: 11:23 AM [ ] PM

[ ] Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Telephone No. \_\_\_\_\_

☒ Outgoing Call

To: Oleg Kostin (201)-376-8800

Affiliation: American water Co (WEST ORANGE) Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegodi (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☒ Conversation [ ] Agreement:

West Orange receives their municipal  
drinking water from Reservoirs -  
Spring & Otter 2/28/92 Winter they  
get from a Short Hills Reservoir (unwatched)  
Summer & fall they receive water from the  
Ulanque Reservoir (the water is purchased from  
the Passaic Valley Water Commission

There are no municipally owned wells  
in operation due to contamination

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-092 Scientific Glass

Date: 2/24/92

Time: 1:54 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Affiliation: \_\_\_\_\_

☒ Outgoing Call

To: Tony Scillia (201)-266-8869

Telephone No. \_\_\_\_\_

Affiliation: East Orange water dept

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☒ Conversation [ ] Agreement:

East Orange has artesian wells - the wells are  
located in Livingston, Millburn and Florham  
Park. There are no municipal wells located  
in East Orange which are used for potable  
water

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-084

Date: 2/24/92

Time: 3:12 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Telephone No. \_\_\_\_\_

☒ Outgoing Call

To: Maurits  
Modin (202)-745-8444

Affiliation: Glen Ridge water dept Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegedi  
(Receiving or Calling) Name

Telephone No. \_\_\_\_\_

Summary of ☒ Conversation [ ] Agreement:

Glen Ridge obtains their drinking water from North  
Jersey District water supply - Wannague Reservoir  
The South end receives water from the Montclair  
well  
The wells are pumped into distribution system  
So the water is mixed (the well water & reservoir water)  
They have intakes on Lincoln St, Walnut Crest  
Crescent and Watchung & Ridgewood Ave  
Lincoln St intake takes from the Glenfield well  
population served is ~ 7500 people

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-034

Date: 2/28/92

Time: 12:07 [ ] AM [X] PM

[ ] Incoming Call

From: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Affiliation: \_\_\_\_\_

[X] Outgoing Call

To: Tom Sauchelli (201)-753-5600

Telephone No. \_\_\_\_\_

Affiliation: Montclair water bureau

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of [X] Conversation [ ] Agreement:

Montclair receives their public drinking water  
from the Wanague Reservoir and three wells  
The well and reservoir water is blended in  
the distribution system and then sent out

The wells and their locations are the following:  
1) Lorraine well - Lorraine Ave and N Mountain (NE side)  
2) Rand well - Chesnut and N Fullerton (NW side)  
3) Glenfield well - Bloomfield Ave and Maple Ave (SE side)

The gpd are the following: 1) Lorraine well 345600 gpd  
2) Rand well 489000 gpd 3) Glenfield well 349000 gpd

The service population for Montclair is ~38000 people,  
however they also service portions of Glen  
Ridge, Clifton and Little Falls - He doesn't know  
the populations served in these towns

All wells tap the Brunswick formation and are  
drilled to ~300ft

All wells have air stoppers and are tested twice a  
month - They have not found contamination

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 3002-084

Date: 2/20/92

Time: 4:03 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Telephone No. \_\_\_\_\_

☒ Outgoing Call

To: Florence Oberg (201)-783-5600

Affiliation: Montclair Water Bureau Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegedi  
(Receiving or Calling) Name

Telephone No. \_\_\_\_\_

Summary of ☒ Conversation [ ] Agreement:

75% of Montclair is served by water from the Waraque Reservoir

25% of Montclair is supplied by public wells - There are 3 wells

well #1 - Glenfield well located right off Maple Ave

well #2 - Rand Well located on North Fullerton Ave

well #3 - Lorraine well located at the corner of North Mountain Ave and Lorraine Ave

The wells are blended and she doesn't know the population served.

She thinks the wells tap the Brunswick formation

She will send me ~~the~~ well location maps

0122

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-C81

Date: 8/10/92

Time: 3:30 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Telephone No. \_\_\_\_\_

☒ Outgoing Call

To: David Kichham (201)-266-4040

Affiliation: Orange Water Supt Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☒ Conversation [ ] Agreement:

The City of Orange has 4 active wells with one more being put into service soon. ~90% of all their water comes from the wells, and ~10% of all their water comes from surface water. Currently, the Orange Park well is not active however the Gist Place well is. All the well water & reservoir water is pumped into the same distribution center and sent out except for Gist Place well. It runs through the same pipes but is not pumped into the distribution system. The Gist Place well supplies ~20% of the total water sent out (includes reservoir water and other well water).





**THE CITY OF ORANGE**  
29 NO. DAY STREET • ORANGE, N.J. 07050

**DEPARTMENT OF  
PUBLIC WORKS**

March 10, 1992

Lisa Szegedi  
Malcom Pierne  
104 Enterchange Plaza  
Cranbury, New Jersey 08512

Re: Well Location Map

Dear Ms. Szegedi:

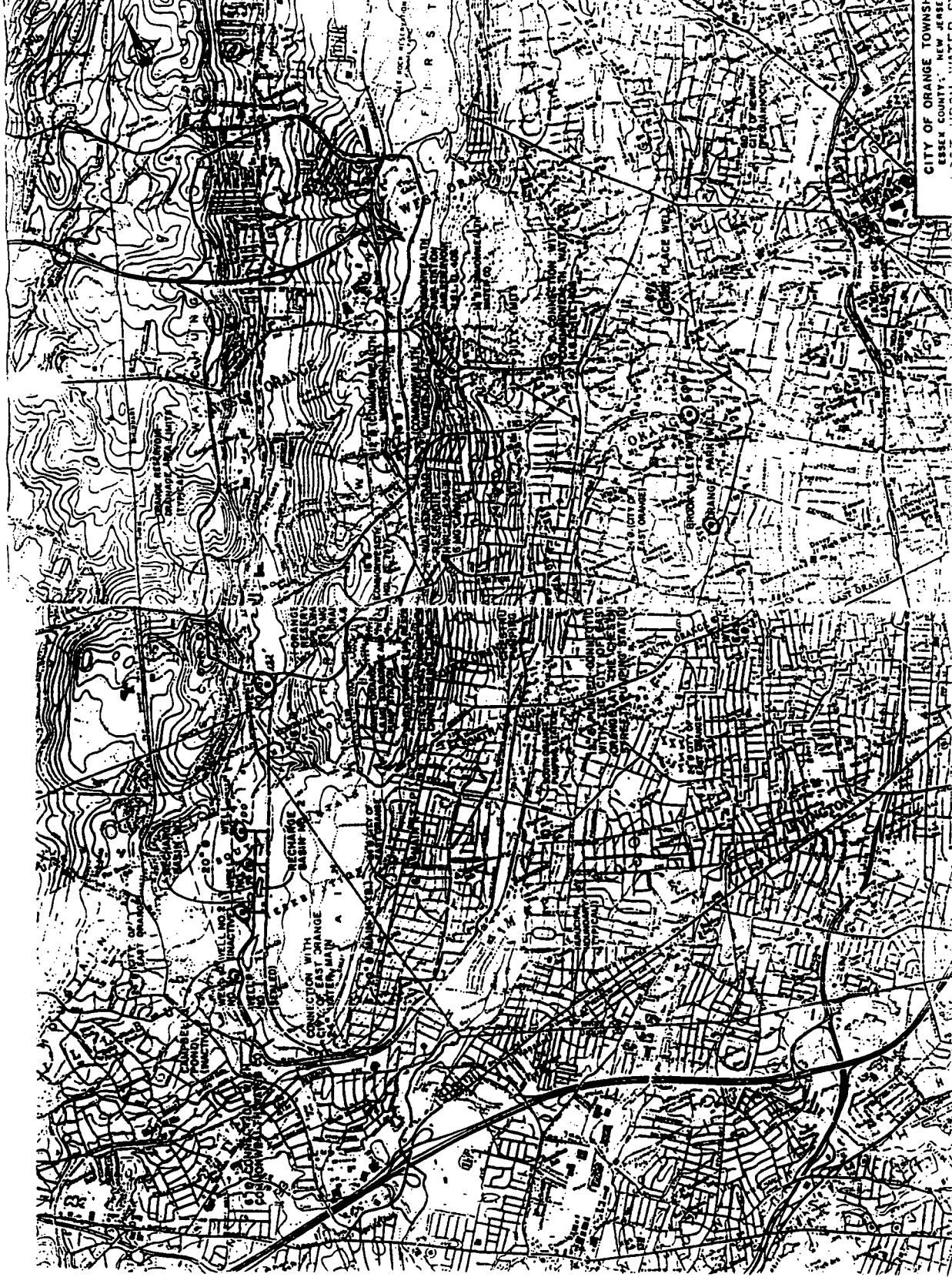
Enclosed please find copy of well location map that you requested.

If you have any further questions, please feel free to call me at 266-4032 or 266-4040.

Sincerely,

David Kirkham  
Water Superintendent

DK:rm  
92-L-632  
Enclosure



ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-084

Date: 2/28/92

Time: 11:03 ☒ AM ☐ PM

☐ Incoming Call

From: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Affiliation: \_\_\_\_\_

☒ Outgoing Call

To: Arlene Kemp (201)-266-4031

Telephone No. \_\_\_\_\_

Affiliation: Orange municipal engineer

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-010

(Receiving or Calling) Name

Telephone No.

Summary of ☒ Conversation ☐ Agreement:

Orange receives their municipal drinking water from wells and reservoirs. The well water and reservoir water is blended in the same distribution system and then sent out. Only Guest Place well is not blended with the rest - it is sent out separately. The total population served is ~ 32,000 people. She doesn't have separate numbers for Guest Place well and then the blended system.

There are 6 wells - 4 are in operation. All except one is located in West Orange. The other well is located in Orange. The wells are all drilled to go to 2/28/92 go to ~ depth of 500ft. She doesn't know what aquifer they tap.

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8002-032 Scientific Glass

Date: 2/24/92

Time: 2:24 ☐ AM ☒ PM

☐ Incoming Call

From: \_\_\_\_\_

Affiliation: \_\_\_\_\_ Telephone No. \_\_\_\_\_

☐ Outgoing Call

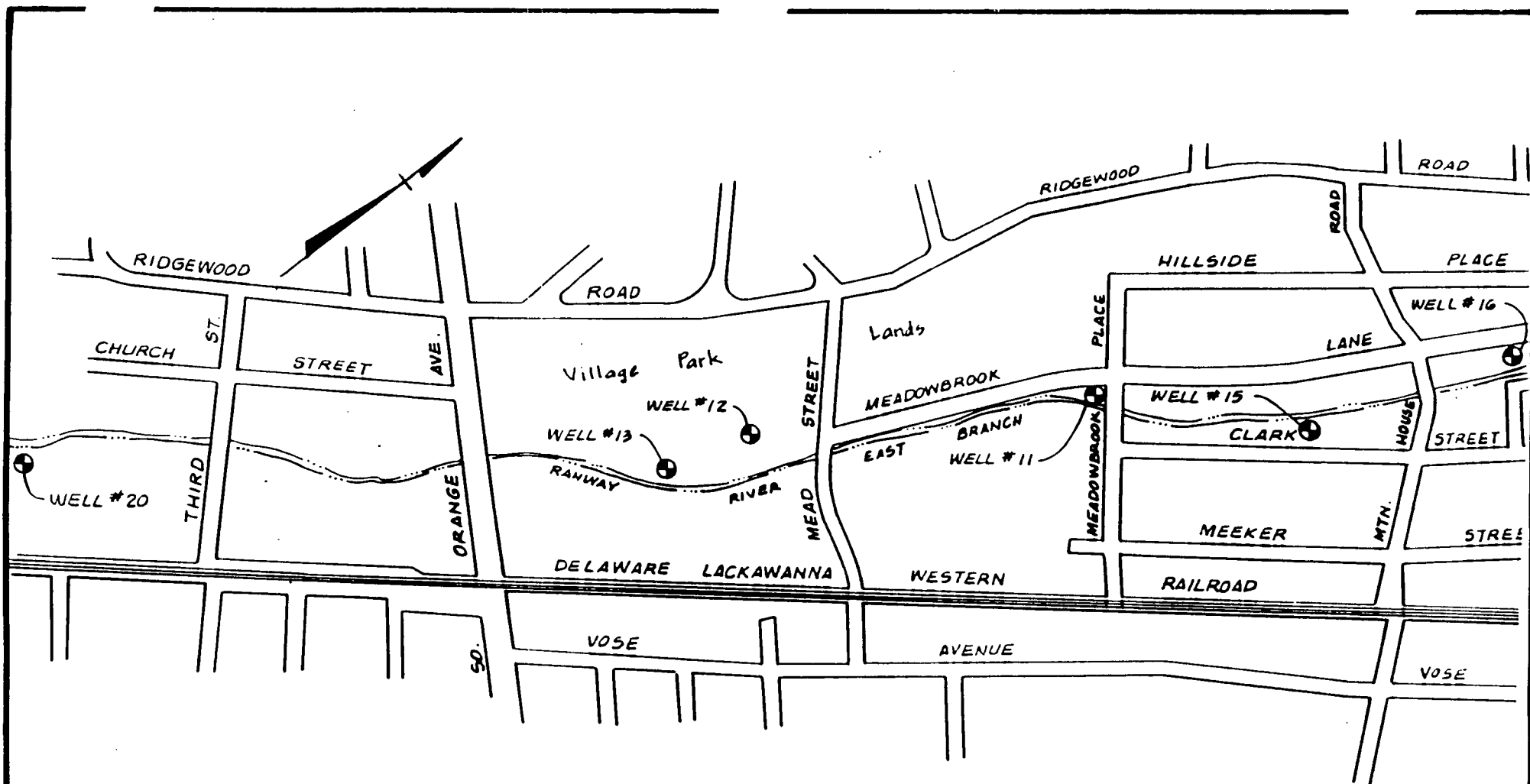
To: Dick Ash (201)-378-7746

Affiliation: South Orange water dept Telephone No. \_\_\_\_\_

Malcolm Pirnie Staff: Lisa Gregori (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☒ Conversation ☐ Agreement:

South Orange has artesian wells - all are  
located in S Orange - none of the wells are  
within 4 miles of Bloomfield boundary



NOTES

HOUSE No

LOT No

BLOCK No

MAP TITLE

FILED MAP No

**FIGURE 1**

**LOCATION PLAN**  
**WELLS 11,12,13,15,16 & 20**

SITUATED IN THE  
 TOWNSHIP OF SO. ORANGE VILLAGE



The Schorr DePina & Canger Group Inc  
**CANGER & CASSERA**  
 Consulting and Municipal Engineers



ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-081

Date: 8/10/92

Time: 2:19 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Affiliation: \_\_\_\_\_

☒ Outgoing Call

To: Greg Cullen (201)-991-2700

Telephone No. \_\_\_\_\_

Affiliation: Hearsey Water Dept

Malcolm Pirnie Staff: Lisa Szeagdi (609)-960-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☒ Conversation [ ] Agreement:

Hearsey owns a portion of the Wanago Reservoir.  
They obtain all their drinking water from  
the reservoir - there are no municipally  
owned wells

0140

ARCS II CONTRACT 68-W9-0051  
MALCOLM PIRNIE, INC.  
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-081

Date: 8/10/92

Time: 2:09 [ ] AM ☒ PM

[ ] Incoming Call

From: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Affiliation: \_\_\_\_\_

☒ Outgoing Call

To: John Siccone (201)-239-4493

Telephone No. \_\_\_\_\_

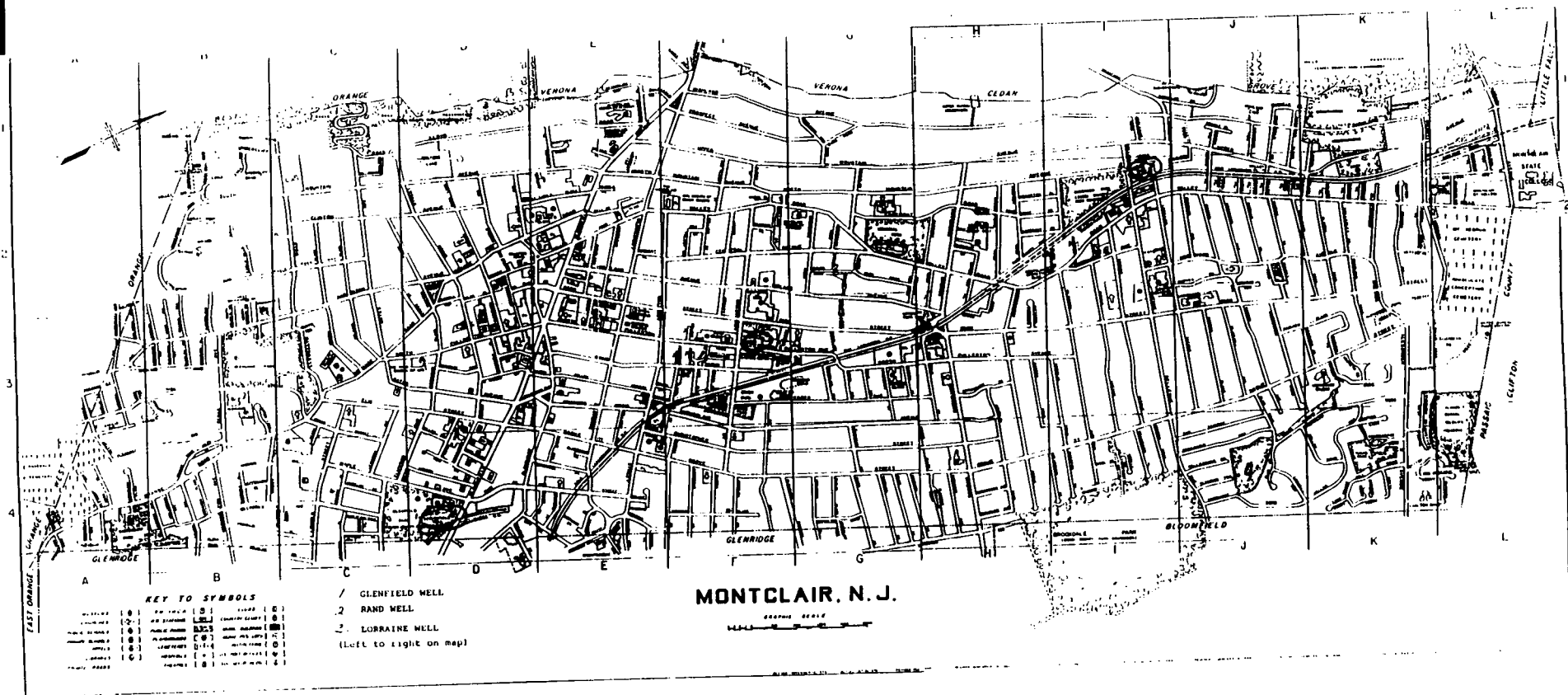
Affiliation: Newark Water Dept

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-0100  
(Receiving or Calling) Name Telephone No.

Summary of ☒ Conversation [ ] Agreement:

All Newark residents are supplied water from  
reservoirs in West Milford. There are no  
municipally owned wells. Newark also supplies  
water to town of Bloomfield and Belleville





<b>To: File</b>	<b>Date: April 1, 1993</b>
<b>From: Lisa Szegedi</b>	<b>Project #: 8003-081</b>
<b>Subject: Waste Source</b>	<b>Site Name: Gen Tape, Inc.</b>
<p>One waste source has been identified at the Gen Tape, Inc. site. Based on soil sampling results, an area of 174,240 square feet of soil contaminated with barium, cadmium, mercury, nickel, silver, trans-1,2-dichloroethylene, tetrachloroethene, 1,1,1-trichloroethane, and trichloroethylene has been identified.</p>	

Potential Contamination  
-----

Intake ID	Average Annual Flow (cfs)	Population Served
-----		
- N/A and/or data not specified		

Type of Surface Water Body	Total Population	Dilution-Weighted Population
-----		
- N/A and/or data not specified		

=====

Dilution-Weighted Population Served by Potentially Contaminated Intakes:	0.0
---	-----

Potential Contamination Factor: 0.0

Nearest Intake  
-----

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources  
-----

Resource Use: YES

Resource Value: 5.00E+00

Source: 1 Contaminated Soil

Source Hazardous Waste Quantity Value: 5.12

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Barium	10000	1.00E+00	5.00E-01	5.00E+03
Cadmium	10000	1.00E+00	5.00E+03	5.00E+07
Dichloroethylene, trans-1,2-	100	4.00E-01	5.00E+01	2.00E+03
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Nickel	10000	1.00E+00	5.00E-01	5.00E+03
Silver	1000	1.00E+00	5.00E+01	5.00E+04
Tetrachloroethene	100	4.00E-01	5.00E+01	2.00E+03
Trichloroethane, 1,1,1-	10	4.00E-01	5.00E+00	2.00E+01
Trichloroethylene	10	4.00E-01	5.00E+01	2.00E+02

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
---------------	---	-------------------	----------------------	-------------------------	---

-----  
- N/A and/or data not specified

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	5.12E+00
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	180

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- 
- N/A and/or data not specified

Most Distant Level II Sample

- 
- N/A and/or data not specified

Level I Concentrations  
-----

Fishery	Annual Production (pounds)	Human Food Chain Population Value
---------	-------------------------------	--------------------------------------

-----  
- N/A and/or data not specified  
=====

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00



Level II Concentrations  
-----

Fishery	Annual Production (pounds)	Human Food Chain Population Value
---------	-------------------------------	--------------------------------------

-----  
- N/A and/or data not specified  
=====

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Fishery	Annual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 Second River	0.1	River	22	0.0	1.00E-01	3.00E-03
2 Passaic River	0.1	River	1156	0.0	1.00E-03	3.00E-05
3 Newark Bay	0.1	Coastal	0	0.0	1.00E-04	3.00E-06

Sum of (Pi\*Di): 3.03E-03

Potential Human Food Chain Contamination Factor: 3.03E-04

Food Chain Individual

Location of Nearest Fishery: Second River  
 Distance from the Probable Point of Entry: 0.00 miles  
 Type of Surface Water Body: River  
 Dilution Weight: 0.1000000  
 Level of Contamination: Potential

Food Chain Individual Factor: 2.00

Source: 1 Contaminated Soil

Source Hazardous Waste Quantity Value: 5.12

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	5.00E-01	5.00E-01
Cadmium	1000	1.00E+00	5.00E+03	5.00E+06
Dichloroethylene, trans-1,2-	0	4.00E-01	5.00E+01	0.00E+00
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
Nickel	10	1.00E+00	5.00E+02	5.00E+03
Silver	10000	1.00E+00	5.00E+01	5.00E+05
Tetrachloroethene	100	4.00E-01	5.00E+01	2.00E+03
Trichloroethane, 1,1,1-	10	4.00E-01	5.00E+00	2.00E+01
Trichloroethylene	10	4.00E-01	5.00E+01	2.00E+02

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
---------------	---	---------------------------	----------------------	-------------------------	--

-----  
- N/A and/or data not specified

Ecotoxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Ecotoxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Ecotoxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	5.12E+00
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	180

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- 
- N/A and/or data not specified

Most Distant Level II Sample

- 
- N/A and/or data not specified

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
-----		
- N/A and/or data not specified		

-----  
Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
-----		
- N/A and/or data not specified		

-----  
Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

=====  
Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00



Potential Contamination  
 -----

Sensitive Environments  
 -----

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value
River	3 Classification	5

Wetlands  
 -----

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	1 Wetlands	2.00	50
Coastal Tidal Area	2 Wetlands	4.00	100

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Large Stream to River	5	50	1.00E-03	5.50E-02
Coastal Tidal Waters	0	100	1.00E-04	1.00E-02

Sum of Dj(Wj+Sj): 6.50E-02  
 Sum of Dj(Wj+Sj)/10: 6.50E-03

=====

Potential Contamination Sensitive Environment Factor: 6.50E-03

February 17, 1993

Mr. John Steiner  
Manager of Environmental Services  
Agway, Inc.  
P. O. Box 4746  
Syracuse, NY 13221-4746

**Access Request**

Dear Mr. Steiner:

Enclosed are letters of introduction from the U.S. Environmental Protection Agency stating our authority and statutory basis for conducting a Site Inspection at the Agway, Inc. facility. The site is included on the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) under the name Agway, Inc., EPA I.D. Number NYD980528202.

A Site Inspection is a two-step process consisting of a site reconnaissance and sampling inspection. The need to conduct the sampling inspection portion will be evaluated upon completion of the site reconnaissance. Based on background information and site conditions, a site reconnaissance and sampling inspection may be conducted as a single on-site event.

The site reconnaissance will assess potential sampling locations and screen the site for health and safety considerations. We would like to conduct the site reconnaissance on March 17th, 1993. A sampling inspection may follow and may include the collection of water, soil and/or sediment samples. Specific sampling locations will be determined following the site reconnaissance. We would like to conduct the sampling inspection on a date to be determined. Photographs will be taken throughout the site reconnaissance and the sampling inspection for evidentiary purposes. Personal protective clothing and equipment will be worn as per Occupational Safety and Health Administration (OSHA) regulations. If requested, splits of all samples collected during the sampling inspection can be made available. Please inform me if you want to split samples, and arrangements will be made accordingly. Please note that after the site reconnaissance it may be determined that a follow-up sampling inspection is not needed and will not be conducted.

The Site Inspection activities are to be performed in accordance with the direction of the U.S. Environmental Protection Agency under contract number 68-W9-0051. The U.S. EPA has provided Malcolm Pirnie, Inc. with a list of properties throughout the region which are to undergo similar inspections.

If you have any questions concerning the scheduling of these efforts or other aspects of these activities, please contact me at (609)-860-0100.

Very truly yours,

MALCOLM PIRNIE, INC.

Dennis Stainken, Ph.D.  
Associate



Likelihood of Exposure

No. Source ID Level of Contamination

1 Contaminated Soil Level II

Likelihood of Exposure Factor: 550

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Barium	< 2	5.2E+02	0.0E+00	4.1E+04	ppm
1	Cadmium	< 2	6.1E+00	0.0E+00	2.9E+02	ppm
1	Dichloroethylene, trans-1,2-	< 2	7.1E-02	0.0E+00	1.2E+04	ppm
1	Mercury	< 2	3.1E+00	0.0E+00	1.7E+02	ppm
1	Nickel	< 2	7.0E+01	0.0E+00	1.2E+04	ppm
1	Silver	< 2	6.1E+00	0.0E+00	1.7E+03	ppm
1	Tetrachloroethene	< 2	1.0E-01	1.1E+01	5.8E+03	ppm
1	Trichloroethane, 1,1,1-	< 2	1.0E-01	0.0E+00	5.2E+04	ppm
1	Trichloroethylene	< 2	1.4E-01	5.3E+01	0.0E+00	ppm

Source: 1 Contaminated Soil

Source Hazardous Waste Quantity Value: 5.12

Hazardous Substance	Toxicity Value
------------------------	-------------------

Barium	10000
Cadmium	10000
Dichloroethylene, trans-1,2-	100
Mercury	10000
Nickel	10000
Silver	1000
Tetrachloroethene	100
Trichloroethane, 1,1,1-	10
Trichloroethylene	10

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.12E+00
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

Targets  
-----

Level I Population: 0.0 Value: 0.00

Level II Population: 0.0 Value: 0.00

Workers: 36.0 Value: 5.00

Resident Individual: Potentia Value: 0.00

Resources: NO Value: 0.00

Terrestrial Sensitive Environment Value

-----  
- N/A and/or data not specified

=====

Terrestrial Sensitive Environments Factor: 0.00



Likelihood of Exposure

No. Source ID	Level of Contamination	Attractiveness/ Accessibility	Area of Contam. (sq. feet)
1 Contaminated Soil	Level II	10	1
-----			
Highest Attractiveness/Accessibility Value:		10	
Sum of Eligible Areas Of Contamination (sq. feet):			1
Area of Contamination Value:		5	

Likelihood of Exposure Factor Category: 5

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Barium	< 2	5.2E+02	0.0E+00	4.1E+04	ppm
1	Cadmium	< 2	6.1E+00	0.0E+00	2.9E+02	ppm
1	Dichloroethylene, trans-1,2-	< 2	7.1E-02	0.0E+00	1.2E+04	ppm
1	Mercury	< 2	3.1E+00	0.0E+00	1.7E+02	ppm
1	Nickel	< 2	7.0E+01	0.0E+00	1.2E+04	ppm
1	Silver	< 2	6.1E+00	0.0E+00	1.7E+03	ppm
1	Tetrachloroethene	< 2	1.0E-01	1.1E+01	5.8E+03	ppm
1	Trichloroethane, 1,1,1-	< 2	1.0E-01	0.0E+00	5.2E+04	ppm
1	Trichloroethylene	< 2	1.4E-01	5.3E+01	0.0E+00	ppm

Source: 1 Contaminated Soil

Source Hazardous Waste Quantity Value: 5.12

Hazardous Substance	Toxicity Value
Barium	10000
Cadmium	10000
Dichloroethylene, trans-1,2-	100
Mercury	10000
Nickel	10000
Silver	1000
Tetrachloroethene	100
Trichloroethane, 1,1,1-	10
Trichloroethylene	10

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	5.12E+00
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

Nearby Individual  
-----

Population within 1/4 mile: 2890.0

Nearby Individual Value: 1.0

Population Within 1 Mile  
-----

Travel Distance Category	Number of People	Value
> 0 to 1/4 mile	2890.0	4.1
> 1/4 to 1/2 mile	7793.0	6.5
> 1/2 to 1 mile	34140.0	32.6
Population Within 1 Mile Factor:		43.0

OBSERVED RELEASE

No. Sample ID	Distance (miles)	Level of Contamination
-----		
- N/A and/or data not specified		

=====

Observed Release Factor: 0

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain. Value (A)	Gas Source Type Value (B)	Gas Migrtn. Potent. Value (C)	Sum (B+C)	Gas Potential to Rel. Value A(B+C)
Contaminated Soil	Contaminated Soil	10	19	17	36	360

Gas Potential to Release Factor: 360

Source: Contaminated Soil

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Dichloroethylene, trans-1,2-	17
Mercury	11
Tetrachloroethene	17
Trichloroethane, 1,1,1-	17
Trichloroethylene	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000  
=====

Gas Migration Potential Value From Table 6-7: 17

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain. Value (A)	Partic. Source Type Value (B)	Partic. Migrtn. Potent. Value (C)	Sum (B+C)	Partic. Potential to Rel. Value A(B+C)
Contaminated Soil	Contaminated Soil	10	22	6	28	280

Particulate Potential to Release Factor: 280



Source: Contaminated Soil

Particulate Hazardous Substance

---

Barium  
Cadmium  
Mercury  
Nickel  
Silver

Source: 1 Contaminated Soil

Source Hazardous Waste Quantity Value: 5.12

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Barium	10000	NA	8.00E-05	8.00E-01
Cadmium	10000	NA	8.00E-05	8.00E-01
Dichloroethylene, trans-1,2-	100	1.00E+00	NA	1.00E+02
Mercury	10000	2.00E-01	8.00E-05	2.00E+03
Nickel	10000	NA	8.00E-05	8.00E-01
Silver	1000	NA	8.00E-05	8.00E-02
Tetrachloroethene	100	1.00E+00	NA	1.00E+02
Trichloroethane, 1,1,1-	10	1.00E+00	NA	1.00E+01
Trichloroethylene	10	1.00E+00	NA	1.00E+01

Hazardous Substances Found in an Observed Release

Sample Observed Release ID	Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value
-------------------------------	---------------------	--	------------------------------------

-----  
- N/A and/or data not specified

Toxicity/Mobility Value from Source Hazardous Substances:	2.00E+03
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	2.00E+03
Sum of Source Hazardous Waste Quantity Values:	5.12E+00
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	10

Actual Contamination

No. Sample ID	Distance (miles)	Level of Contamination
---------------	---------------------	------------------------

-----  
- N/A and/or data not specified

Potential Contamination

-----  
Distance Categories Subject  
to Potential Contamination

Population

Value

Onsite	0.0	0.0000
> 0 to 1/4 mile	2541.0	40.8000
> 1/4 to 1/2 mile	7793.0	28.2000
> 1/2 to 1 mile	34140.0	83.4000
> 1 to 2 miles	143659.0	83.3000
> 2 to 3 miles	184239.0	37.5000
> 3 to 4 miles	189331.0	22.9000

-----  
Potential Contaminantion Factor: 296.0000

Nearest Individual Factor  
-----

Level of Contamination: Potential  
Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Resources  
-----

Resource Use: NO

Resource Value: 0

Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value
-----		
- N/A and/or data not specified		
-----		

Actual Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value
-----		
- N/A and/or data not specified		
-----		

=====

Sensitive Environments Actual Contamination Factor:	0.000
(Sum of Sensitive Environments + Wetlands Values)	

Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
	0.000	0	1.0000	0.000

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10
- N/A and/or data not specified				

=====

Sensitive Environment Potential Contamination Factor: 0.000